<table>
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<th>CONSTRUCTION DESCRIPTION</th>
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<tbody>
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<td>11PMCTC/ASL RMU - ABB SafeLink in padmounted</td>
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<td>11CTC/ASD RMU - ABB SD series Triplex XLPE cable termination &amp; connection</td>
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<td>11CTC/ASL RMU - ABB Safelink2 freestanding 400mm² 1C Cu. cable termination &amp; connection</td>
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<td>FBX RMU - Triplex XLPE cable term. &amp; conn. - construction</td>
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<td>11PMCTC/8DJH 8DJH RMU - Triplex XLPE cable term. &amp; conn. - material</td>
<td>5373/1</td>
<td><strong>22CTC/TX Transformer Triplex XLPE cable termination and connection</strong></td>
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<tr>
<td>8DJH RMU - Triplex XLPE cable term. &amp; conn. - construction</td>
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**Underground Distribution**

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<td>Pole termination 35mm²/185mm² Al. Triplex and 630mm² Al. 1 core XLPE cable</td>
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<td>22CTP</td>
<td>Pole termination with links (trident) 35mm²/185mm² Al. XLPE cable</td>
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<td>22CTP</td>
<td>Pole termination with ABS &amp; EDO's 35mm²/185mm² Al. XLPE cable</td>
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<tr>
<td>22CTP</td>
<td>Pole termination with ABS &amp; EDO's 35mm²/185mm² Al. XLPE cable</td>
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<tr>
<td>22CTP</td>
<td>Pole termination direct to mains 630mm² Al. 1 core XLPE cable</td>
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<td>33kV POLE TERMINATION CONSTRUCTION</td>
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<tr>
<td>33CTP</td>
<td>Pole termination with links 50mm²/300mm² Al 1 core</td>
</tr>
<tr>
<td>33CTP</td>
<td>Pole termination with ABS and EDO's 50mm²/300mm² Al 1 core</td>
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</tbody>
</table>
11kV PADMOUNTED SUBSTATION CABLE TERMINATION & CONNECTION RMU CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

11 PM/CTC/ASL/35T

VOLTAGE
11 = 11kV

CONSTRUCTIONS
CTC = Cable Termination & Connection

HV SWITCHGEAR
ASL = ABB SafeLink
FBX = Schneider Electric
FBX = Siemens 8DJH

CABLE SIZE
35T = 35mm² Al Triplex
185T = 185mm² Al Triplex
35TI = 35mm² Al Triplex insect protected
185TI = 185mm² Al Triplex insect protected
400CUI = 400mm² Cu 1 Core insect protected
400T = 400mm² Al Triplex
400TI = 400mm² Al Triplex insect protected

EXAMPLE:- 11PMCTC/ASL/35T = 11kV, Padmounted Substation, Cable Termination and connection, ABB SafeLink RMU, 35mm² Al Triplex cable

11kV CABLE TERMINATION & CONNECTION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

11 CTC/ASD/35T

VOLTAGE
11 = 11kV

CONSTRUCTIONS
CTC = Cable Termination & Connection

HV SWITCHGEAR
ASD = ABB SD series
ASL = ABB SafeLink
ASP = ABB SafePlus
ASR = ABB SafeRing

CABLE SIZE
35T = 35mm² Al Triplex
185T = 185mm² Al Triplex
35TI = 35mm² Al Triplex insect protected
185TI = 185mm² Al Triplex insect protected
400CUI = 400mm² Cu 1 Core insect protected
400T = 400mm² Al Triplex
400TI = 400mm² Al Triplex insect protected

EXAMPLE:- 11CTC/ASD/35T = 11kV, Cable Termination and connection, ABB SD series RMU, 35mm² Al Triplex cable

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
CONSTRUCTION CODE GUIDE
CABLE TERMINATION AND CONNECTION
**11kV CABLE TERMINATION & CONNECTION TRANSFORMER CONSTRUCTION CODE**

Code shown within dashed box appears on relevant construction detail drawings in this manual.

- **VOLTAGE**
  - 11 = 11kV

- **CONSTRUCTIONS**
  - CTC = Cable Termination & Connection

- **TRANSFORMER**
  - TX = Transformer
  - ATX = Auto Transformer

- **CABLE SIZE**
  - 35T = 35mm² Al Triplex
  - 185T = 185mm² Al Triplex
  - 35TI = 35mm² Al Triplex insect protected
  - 185TI = 185mm² Al Triplex insect protected
  - 400TI = 400mm² Al Triplex
  - 400TI = 400mm² Al Triplex insect protected
  - 400CUI = 400mm² Cu 1 core insect protected

**EXAMPLE:**

11CTC/TX/35TI = 11kV, Cable termination and connection, Transformer, 35mm² Triplex insect protected cable

**11kV CABLE TERMINATION & CONNECTION MAGNEFIX MD SERIES CONSTRUCTION CODE**

Code shown within dashed box appears on relevant construction detail drawings in this manual.

- **VOLTAGE**
  - 11 = 11kV

- **CONSTRUCTIONS**
  - CTC = Cable Termination & Connection

- **HV SWITCHGEAR**
  - MMD = Magnefix MD series

- **CABLE SIZE**
  - 35T = 35mm² Al Triplex
  - 185T = 185mm² Al Triplex
  - 35TI = 35mm² Al Triplex insect protected
  - 185TI = 185mm² Al Triplex insect protected
  - 400TI = 400mm² Al Triplex
  - 400TI = 400mm² Al Triplex insect protected
  - 400CUI = 400mm² Cu 1 core insect protected

**EXAMPLE:**

11CTC/MMD/185T = 11kV, Cable termination and connection, Magnefix MD series RMU, 185mm² Triplex cable

---

**UNDERGROUND DISTRIBUTION**

**11kV CONSTRUCTION**

**CONSTRUCTION CODE GUIDE**

**CABLE TERM. & CONN. MAGNEFIX & TRANSFORMER**

---

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**ERGON ENERGY CORPORATION LTD**

ABN 50 087 646 062
11kV POLE TERMINATION CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

EXAMPLE:- 11CTP/35T/M = 11kV, Cable termination, Pole, 35mm² Triplex cable, Metal cable guard

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>CONSTRUCTIONS</th>
<th>POLE</th>
<th>CABLE SIZE</th>
<th>CABLE GUARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>CT = Cable termination</td>
<td>P = Pole</td>
<td>35T = 35mm² Al Triplex</td>
<td>M = Metal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>185T = 185mm² Al Triplex</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>35TI = 35mm² Al Triplex insect protected</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>185TI = 185mm² Al Triplex insect protected</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400CUI = 400mm² Cu 1 core insect protected</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400T = 400mm² Al Triplex</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400TI = 400mm² Al Triplex insect protected</td>
<td></td>
</tr>
</tbody>
</table>

Ergon Energy Corporation Ltd
ABN 50 087 646 062

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
CONSTRUCTION CODE GUIDE
POLE TERMINATION
EXAMPLE:- 22CTC/FGA/185T = 22kV, Cable termination and connection, F & G GA...C series RMU, 185mm² Triplex cable

EXAMPLE:- 22CTC/TX/35TI = 22kV, Cable termination and connection, Transformer, 35mm² Triplex insect protected cable
22kV POLE TERMINATION CONSTRUCTION CODE

Example: 22CTP/185T/P = 22kV, Cable termination, Pole, 185mm² Triplex cable, Polymeric cable guard.

Voltage
22 = 22kV

Constructions
CT = Cable termination

Pole
P = Pole

Cable Size
35TI = 35mm² Al Triplex Inact protected
185T = 185mm² Al Triplex
630 = 630mm² Al 1 Core

Cable Guard
P = Polymeric
(Not available for 630mm² cable)
M = Metal

Code shown within dashed box appears on relevant construction detail drawings in this manual.
Code shown within dashed box appears on relevant construction detail drawings in this manual.

33kV POLE TERMINATION CONSTRUCTION CODE

VOLTAGE
33 = 33kV

CONSTRUCTIONS
CT = Cable termination

POLE
P = Pole

CABLE SIZE
50 = 50mm² Al 1 Core
300 = 300mm² Al 1 Core

CABLE GUARD
P = Polymeric
M = Metal

EXAMPLE:- 33CTP/300/P = 33kV, Cable termination, Pole, 300mm² Al 1 Core cable, Polymeric cable guard.

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION CODE GUIDE
POLE TERMINATION

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Ergon Energy Corporation Ltd
ABN 50 087 646 062

DATE 22.08.11
APPROVED C.Neil
PASSED A.Bletchly
DRAWN T.Borg
FILE: 5 58 5247 1
Dwg 5247 Sh 1
### ASSY Description

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>571-1</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>571-2</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>571-3</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>571-4</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>571-8</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 400mm² Al cable</td>
<td>1</td>
</tr>
<tr>
<td>571-9</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 400mm² Al cable insect prot.</td>
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</tr>
<tr>
<td>573-2</td>
<td>Clamp to channel suit 11kV 35mm² Al cable</td>
<td>3</td>
</tr>
<tr>
<td>573-4</td>
<td>Clamp to channel suit 11kV 185mm² Al cable</td>
<td>3</td>
</tr>
<tr>
<td>573-9</td>
<td>Clamp to channel suit 11kV 400mm² Al cable</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTES:**
1. Insulate screen wires with PVC tape.

**WARNING:**
Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

**TERMINATION AND CONNECTION KIT, AND BUSHING BOOTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS**

**W O R K I N G P L A N**

- Construction Type: 11PMCTC/ASL
- Station Earth

**CONSTRUCTION DRAWING**

- Unistrut set in concrete plinth
- Clamp on cable
- Insulate screen wires with PVC tape
- Do not over tighten clamp on cable
- 573-2, 4 or 9

**RMU - ABB SAFELINK IN PADMOUNTED SUBSTATION**

**TRIPLEX XLPE CABLE TERMINATION & CONNECTION**

**ERGON ENERGY CORPORATION LTD**

- ABN 50 087 646 062

**FILE:** 5206 1

**APPROVED:** C. Noel

**DATE:** 23/9/05

**PASSED:** A. Bletchly

**DRAWN:** C. Lindsay
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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</thead>
<tbody>
<tr>
<td>570-1</td>
<td>Termination &amp; connection (ABB SafeLink) 11kV 400mm² Cu cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>573-6</td>
<td>Clamp to channel suit 11kV 400mm² Cu cable insect protected</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Connect cable screens and earth straps (braid) to separate holes on station earth.

**MATERIAL**

- **Assy 570-1**
  - Termination & connection (ABB SafeLink) 11kV 400mm² Cu cable insect protected

- **Assy 573-6**
  - Clamp to channel suit 11kV 400mm² Cu cable insect protected

**WARNING:**
Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

**SIDE VIEW**

- 400mm² 1 core cable with semi-conductive outer sheath
- Station Earth
- Unistrut set in concrete plinth
- Construction Type 11PMCTC/ASL
- Screen earth Refer Note 1
- Braid earth Refer Note 1

**Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions**

**Do not over tighten clamp on cable.**
### MATERIAL - ASD

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<tbody>
<tr>
<td>514-1</td>
<td>Term. &amp; conn. (ABB SD) 11kV 35mm&lt;sup&gt;2&lt;/sup&gt; cable</td>
<td>1</td>
</tr>
<tr>
<td>514-2</td>
<td>Term. &amp; conn. (ABB SD) 11kV 185mm&lt;sup&gt;2&lt;/sup&gt; cable</td>
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<tr>
<td>514-3</td>
<td>Term. &amp; conn. (ABB SD) 11kV 35mm&lt;sup&gt;2&lt;/sup&gt; cable Insect prot.</td>
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<tr>
<td>514-4</td>
<td>Term. &amp; conn. (ABB SD) 11kV 185mm&lt;sup&gt;2&lt;/sup&gt; cable Insect prot.</td>
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<tr>
<td>541-4</td>
<td>Cable trifoil to channel suit 11kV 35mm&lt;sup&gt;2&lt;/sup&gt; cable</td>
<td></td>
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<tr>
<td></td>
<td>Cable trifoil to channel suit 11kV 35mm&lt;sup&gt;2&lt;/sup&gt; cable Insect prot.</td>
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<tr>
<td>541-7</td>
<td>Cable trifoil to channel suit 11kV 185mm&lt;sup&gt;2&lt;/sup&gt; cable</td>
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</tr>
<tr>
<td></td>
<td>Cable trifoil to channel suit 11kV 185mm&lt;sup&gt;2&lt;/sup&gt; cable Insect prot.</td>
<td>1</td>
</tr>
<tr>
<td>557-21</td>
<td>Spring nut suit P3300 channel</td>
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</tbody>
</table>

### NOTES:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT the unistrut bar or any earth point before reaching the station earth bar.

2. Locate cable lug and bolt head to rear of bushing.

---

**Construction Type**

11CTC/ASD

**Maximum lug width is 35mm. Machine/file both sides of palm as necessary and radius edges.**

**Station Earth**

**BACK OF CABLE BOX**

**Assay Selection**

514-1 to 4

541-4 or 7

557-21
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT the unistrut bar or any earth point before reaching the station earth bar.
# 11kV Construction Assy

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
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<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable</td>
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</tr>
<tr>
<td>571-2</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>571-3</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 35mm² cable insect prot.</td>
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</tr>
<tr>
<td>571-4</td>
<td>Term. &amp; conn. (ABB SafeLink) 11kV 185mm² cable insect prot.</td>
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<tr>
<td>577-1</td>
<td>ABB bushing boots</td>
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<tr>
<td>600-1</td>
<td>Glands to suit 185mm² cable (note 2)</td>
<td>AR</td>
</tr>
</tbody>
</table>

**NOTES:**
1. Insulate screen wires with PVC tape.
2. Sufficient for 1 switch or fuse.

**WARNING:**
Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions.

---

**ASSY SELECTION**
571-1 to 4

**CONSTRUCTION TYPE**
11CTC/ASL

**MATERIAL**
- RMU bushings.
- Heat must NOT be applied near RMU bushings.
- Use only cold applied bushing boots.

---

**Diagram Description**
- Assy 577-1
- Assy 600-1
- Assorted parts

---

**NOTES**
- Ergon Energy Corporation Ltd
- ABN 50 087 646 062
400mm² 1 core cable with semi-conductive outer sheath

Termination and connection kit, and bushing boots to be installed in accordance with Manufacturers installation instructions

WARNING:
Use only cold applied bushing boots. Heat must NOT be applied near RMU bushings.

NOTES:
1. Sufficient for 1 switch or fuse.
# MATERIAL - INCLUDING CABLE SCREEN EARTH CONNECTION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>588-1</td>
<td>Cable termination and connection to RMU 11kV 35mm²</td>
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<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
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</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
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<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
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<tr>
<td></td>
<td><strong>QTY</strong></td>
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<tr>
<td></td>
<td>185mm²</td>
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</tr>
<tr>
<td></td>
<td>400mm²</td>
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</tr>
</tbody>
</table>

## NOTES:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Assy Selection
588-1
or
588-4
or
588-7

Screen earth

Assy 510-6

To Station Earth

Areva FBX RMU
### MATERIAL - INCLUDING CABLE SCREEN EARTH CONNECTION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>588-1</td>
<td>Cable termination and connection to RMU 11kV 35mm²</td>
<td>1</td>
</tr>
<tr>
<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
</tbody>
</table>

### NOTES:
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
### MATERIAL - TERMINATION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>511-1</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 35mm² cable</td>
</tr>
<tr>
<td></td>
<td>Clamp trefoil to pole term. bracket suit 11kV 35mm² cable insect protected</td>
</tr>
<tr>
<td>511-3</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 185mm² cable</td>
</tr>
<tr>
<td></td>
<td>Clamp trefoil to pole term. bracket suit 11kV 185mm² cable insect protected</td>
</tr>
<tr>
<td>511-8</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 400mm² Cu cable insect protected</td>
</tr>
<tr>
<td>511-10</td>
<td>Clamp trefoil to pole term. bracket suit 11kV 400mm² Al cable</td>
</tr>
<tr>
<td></td>
<td>Clamp trefoil to pole term. bracket suit 11kV 400mm² Al cable insect protected</td>
</tr>
<tr>
<td>515-4</td>
<td>Clamp cable to wood pole</td>
</tr>
<tr>
<td>557-8</td>
<td>Clamp trefoil to wood pole to suit 400mm² cable 11kV</td>
</tr>
<tr>
<td>539-1</td>
<td>Bracket termination (11kV, 22kV &amp; 33kV) mounting to wood pole</td>
</tr>
<tr>
<td>540-1</td>
<td>Arrester 11kV mounting to bracket (M12)</td>
</tr>
<tr>
<td>540-4</td>
<td>Arrester 11kV mounting to bracket (M16) - 400mm² cable</td>
</tr>
<tr>
<td>546-1</td>
<td>Termination outdoor 11kV 35mm² Al cable</td>
</tr>
<tr>
<td>546-2</td>
<td>Termination outdoor 11kV 185mm² Al cable</td>
</tr>
<tr>
<td>546-3</td>
<td>Termination outdoor 11kV 35mm² Al cable insect protected</td>
</tr>
<tr>
<td>546-4</td>
<td>Termination outdoor 11kV 185mm² Al cable insect protected</td>
</tr>
<tr>
<td>546-6</td>
<td>Termination outdoor 11kV 400mm² Al cable</td>
</tr>
<tr>
<td>546-7</td>
<td>Termination outdoor 11kV 400mm² Al cable insect protected</td>
</tr>
<tr>
<td>572-1</td>
<td>Termination outdoor 11kV 400mm² Cu cable insect protected</td>
</tr>
<tr>
<td>547-1</td>
<td>Guard wildlife to wood pole</td>
</tr>
</tbody>
</table>

### MATERIAL - CABLE GUARD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>531-1</td>
<td>Guard polymeric to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-6</td>
<td>Guard metal (100) to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-7</td>
<td>Guard metal (130) to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

### NOTES:
1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits triplex and 1 core cable termination. 3 core cable termination requires greater dimension. Polymeric cable guard is not to be used in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
6. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
7. Where wildlife is a problem an additional wildlife guard may be installed over the cable.

### UNDERGROUND DISTRIBUTION

11kV CONSTRUCTION
POLE TERMINATION
35/185/400mm² AL and 400mm² CU XLPE CABLE
HV Earth - Refer
Overhead Construction
Manual EARTHING
HV Equipment Earth

Earth cable to pass underneath wildlife guard

Refer Sheet 1
Note 8

3500 above ground level

Bracket King Bolt

Assy Selection
540-1 or 4

Assy Selection
546-1 to 7
or
572-1

Assy Selection
511-1, 3, 8 or 10
and
580-1 (400mm²)

Assy Selection
515-4
or
557-8
at 1000 crs typical

Assy 539-1
Metal cable guard shall be earthed. Refer Overhead Construction Manual EARTHING for pole and cable guard earthing details.

Construction Type

11CTP

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION
CABLE GUARD TO POLE

Ergon Energy Corporation Ltd
ABN 93 067 945 062

FILE: 5 5101 Sh 3  Dwg 5101 Sh 3
REFER:- Overhead
Construction Manual
CABLE TERM. POLES
for pole top details.

MINIMUM TO GROUND
IF LV CABLE TERM.
REQUIRED
(TYPICAL)

TERMINATION

HV ABC
4250

LV OPEN WIRE
300

4550

DV OPEN WIRE

1800

8200

2450

DELTA INTERMEDIATE

HV ABC
4250

LV OPEN WIRE
300

4550

1800

2450

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH LINKS
35/185/400mm² AL XLPE
REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

LV ABC
3900

LV OPEN WIRE
4200

LV ABC
4450

LV OPEN WIRE
4750

TRIDENT INTERMEDIATE

TRIDENT TERMINATION/STRAIN

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH LINKS (TRIDENT)
35/185/400mm² AL XLPE
REFER:- Overhead Construction Manual CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

LV ABC 5500
LV OPEN WIRE

3700
1800

TRIDENT TERMINATION/STRAIN

300

300

8200

LV ABC
5100
LV OPEN WIRE

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35/185/400mm² AL XLPE

C. Noel

A. Bletchly

C. Lindsay

FILE: 5851018 Dwg 5101 Sh 6
UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
35/185/400mm² AL XLPE

REFER:- Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

FLAT INTERMEDIATE

TERMINATION/STRAIN

LV ABC
4500
4800
LV OPEN WIRE

4200
1800
300

2700
REFER: Overhead Construction Manual
CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TERMINATION

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TERMINATION

LV ABC 4800

300 5100 LV OPEN WIRE

300 5100 LV OPEN WIRE

8200 1800

3000

6200

1400

1800

32000

3500 LV OPEN WIRE

UNDERGROUND DISTRIBUTION
11kV CONSTRUCTION
POLE TERMINATION DIRECT TO MAINS
400mm² Cu 1 CORE XLPE CABLE

HARD COPY UNCONTROLLED

ERGON. ENERGY

DATE 24/12/05

DRAWN C. Lindsey

## MATERIAL - INCLUDING CABLE SCREEN EARTH CONNECTION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>35mm²</td>
</tr>
<tr>
<td>512-1</td>
<td>Cable termination and connection to RMU 22kV 35mm² cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td></td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td></td>
</tr>
<tr>
<td>510-1</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td></td>
</tr>
<tr>
<td>536-5</td>
<td>Clamp to suit 3 x 1 core 630mm² cable</td>
<td></td>
</tr>
<tr>
<td>553-1</td>
<td>35mm² insect protected cable bonding brass tape to cable screen</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES:

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
F & G RMU
Type GA...C (shown)

Assy Selection
512-1 and 553-1
or
512-4
or
512-7

Assy Selection
536-5

Screen earth

Assy 510-1 or 6

To Station Earth

Construction Type
22CTC/FGA
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>512-1</td>
<td>Cable termination and connection to RMU 22kV 35mm² cable insect protected</td>
<td>1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>591-1</td>
<td>Gland Plate Kit and Glands to suit 35mm² cable (107mm)</td>
<td>1</td>
</tr>
<tr>
<td>591-2</td>
<td>Gland Plate Kit and Glands - 35mm² cable (LHS of SSFS or FSFS = 145mm centres)</td>
<td>1</td>
</tr>
<tr>
<td>591-3</td>
<td>Gland Plate Kit and Glands to suit 630mm² cable (107mm)</td>
<td>1</td>
</tr>
<tr>
<td>591-4</td>
<td>Gland Plate Kit and Glands - 630mm² cable (LHS of SSFS or FSFS = 145mm centres)</td>
<td>1</td>
</tr>
<tr>
<td>591-5</td>
<td>Gland Kit with Glands to suit 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-1</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1</td>
</tr>
</tbody>
</table>

**GLAND PLATES:**

For 35mm² and 630mm² cables, designer to nominate Gland Plate Kit to suit. See Assembly 591

**NOTES:**

1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Schneider Electric
RMU Type
RM6 (shown)

Assy Selection
512-1
or
512-4
or
512-7

Assy Selection
591-1 to 5
Refer Sh 1 - Gland Plate Note

Screen earth

Assy 510-6

To Station
Earth

Construction Type
22CTC/RM6
<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>35mm²</th>
<th>185mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-1</td>
<td>Term. &amp; conn. to transformer 22kV 35mm² cable Insect protection</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>509-4</td>
<td>Term. &amp; conn. to transformer 22kV 185mm² cable</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>510-1</td>
<td>Earth connection elbow connector to station earth</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>541-5</td>
<td>Clamp trifoil to channel suit 22kV 35mm² cable Insect protected</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>541-9</td>
<td>Clamp trifoil to channel suit 22kV 185mm² cable</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>557-21</td>
<td>Spring nut suit P3300 channel</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>545-2</td>
<td>Connection 35mm² earth bridge</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>563-1</td>
<td>35mm² Insect protected cable bonding brass tape to cable screen</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
NOTES:
1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits triplex cable termination. 3C cable termination requires greater dimension.
6. Polymeric cable guard is not to be use in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
7. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
8. Where wildlife is a problem an additional wildlife guard may be installed over the cable.
Bracket King Bolt

HV Earth - Refer
Overhead Construction
Manual EARTHING
HV Equipment Earth

Earth cable to
pass underneath
wildlife guard

Refer Sheet 1
Note 8

3500
above ground level

Assy Selection
540-2 or 3

Assy Selection
546-10 to 12

Assy 539-1

Assy 547-1

Assy Selection
511-2, 6 or 12
and
580-1 (630mm²)

Assy Selection
515-4
or
557-12
at 1000 crs (typical)

Construction Type
22CTP

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION - 35mm²/185mm² AL TRIPLEX
AND 630mm² AL 1 CORE XLPE CABLE

Ergon Energy Corporation Ltd
ABN 50 087 646 062
Metal cable guard shall be earthed. Refer Overhead Construction Manual EARTHING for pole and cable guard earthing details.

Assy Selection 531-1, 6, 7 or 8 (Refer note 6)

Cable Support
Wood Pole
Ground Line

Max 150
Min 100

2400 Min

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION
CABLE GUARD TO POLE

ERGON ENERGY CORPORATION LTD
ABN 50 087 646 062

FILE: 5 58 5076 3
Dwg 5076 Sh 3

C. Noel
5/3/03
A. Bletchly
C. Lindsay

DRAWN
PASSED
APPROVED
DATE
ORIGINAL ISSUE
31.05.17
23.11.16
19.9.12
REFER: Overhead Construction Manual CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TERMINATION
2450
1800
LV ABC 4250
LV OPEN WIRE
300
4550

STRAIN
8200
1800
LV ABC 4250
LV OPEN WIRE
300
4550

DELTA INTERMEDIATE
2450
2100
1800
1800
LV ABC 4250
LV OPEN WIRE
300
4200

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION
POLE TERMINATION WITH LINKS
36mm²/185mm² AL XLPE CABLE

Ergon Energy Corporation Ltd
ABN 50 007 640 062

FILE: 5 6B 0764
Dwg 5076 Sh 4
REFER: Overhead Construction Manual CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TRIDENT TERMINATION/STRAIN

TRIDENT INTERMEDIATE

UNDERGROUND DISTRIBUTION
22kV CONSTRUCTION POLE TERMINATION WITH ABS AND EDO'S 35mm²/185mm² AL XLPE CABLE

HARD COPY UNCONTROLLED

FILE: 5 58 5076.8 Dwg 5076 Sh 6

ERGON ENERGY

ERGON ENERGY CORPORATION LTD
ABN 63 067 845 062
REFER: Overhead Construction Manual CABLE TERM. POLES for pole top details.

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

TERMINATION

1800

LV ABC 4800

300

LV OPEN WIRE

8200

3000

TERMINATION

1400

1600

LV ABC 3200

300

LV OPEN WIRE

8200

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

UNDERGROUND DISTRIBUTION 22kV CONSTRUCTION POLE TERMINATION DIRECT TO MAINS 630mm² AL 1 CORE XLPE CABLE
### MATERIAL - TERMINATION

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>511-6</td>
<td>Clamp trefoil to pole term. bracket suit 33kV 50mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>511-11</td>
<td>Clamp trefoil to pole term. bracket suit 33kV 300mm² cable</td>
<td></td>
</tr>
<tr>
<td>557-2</td>
<td>Clamp trefoil to wood pole to suit 50mm² cable</td>
<td>AR</td>
</tr>
<tr>
<td>557-6</td>
<td>Clamp trefoil to wood pole to suit 300mm² cable</td>
<td></td>
</tr>
<tr>
<td>539-1</td>
<td>Bracket termination (11kV, 22kV &amp; 33kV) mounting to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>540-5</td>
<td>Arrester 33kV mounting to bracket (M12)</td>
<td>3</td>
</tr>
<tr>
<td>584-1</td>
<td>Termination outdoor 33kV 50mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>584-2</td>
<td>Termination outdoor 33kV 300mm² cable</td>
<td></td>
</tr>
<tr>
<td>547-1</td>
<td>Guard wildlife to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

### NOTES:

1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do Not Obstruct climbing access.
3. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
4. Minimum dimension to ground from termination bracket king bolt allows sufficient ground clearance for an LV underground termination on pole.
5. Dimension from termination bracket king bolt to LV conductor below suits 1 core cable termination. For 3 core termination a greater separation is required.
6. Polymeric cable guard is not to be use in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact.
7. Refer Earthing Section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
8. Where wildlife is a problem an additional wildlife guard may be installed over the cable.

### MATERIAL - CABLE GUARD

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>531-1</td>
<td>Guard polymeric to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>531-6</td>
<td>Guard metal (100) to wood pole</td>
<td></td>
</tr>
<tr>
<td>531-7</td>
<td>Guard metal (130) to wood pole</td>
<td></td>
</tr>
</tbody>
</table>
HV Earth - Refer Overhead Construction Manual EARTHING HV Equipment Earth

Earth cable to pass underneath wildlife guard

Refer Sheet 1
Note 8

3500 above ground level

Bracket King Bolt

Assy Selection 540-5

Assy Selection 584-1 or 2

Assy Selection 511-6 or 11

Assy Selection 557-2

Assy 539-1

Assy 547-1

Assy 557-6

at 1000 crs (typical)

Construction Type
33CTP

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION
POLE TERMINATION - 50mm²/300mm² AL 1 CORE XLPE CABLE

Ergon Energy Corporation Ltd
ABN 50 087 646 062

FILE: 5 58 5248 2

Dwg 5248 Sh 2
Metal cable guard shall be earthed. Refer Overhead Construction Manual EARTHING for pole and cable guard earthing details.

Assembly Selection 531-1, 6 or 7 (Refer note 6)

150 Max

2400 Min

100 Min

Construction Type 33CTP

UNDERGROUND DISTRIBUTION

33kV CONSTRUCTION
POLE TERMINATION
CABLE GUARD TO POLE
TERMINATION

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

LV ABC 4450
LV OPEN WIRE

STRAIN

DELTA INTERMEDIATE

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION
POLE TERMINATION WITH LINKS
50mm² / 300mm² Al 1 CORE

REFER:- Overhead Construction Manual CABLE TERM. POLES for pole top details.
REFER:- Overhead Construction Manual CABLE TERM. POLES for pole top details.

UNDERGROUND DISTRIBUTION
33kV CONSTRUCTION
POLE TERMINATION WITH ABS AND EDO'S
50mm² / 300mm² Al 1 CORE

MINIMUM TO GROUND IF LV CABLE TERM. REQUIRED (TYPICAL)

10/5/11

REF: Overhead Construction Manual CABLE TERM. POLES for pole top details.
### Material - Including Cable Screen Earth Connection

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>588-4</td>
<td>Cable termination and connection to RMU 11kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>588-7</td>
<td>Cable termination and connection to RMU 11kV 400mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>510-6</td>
<td>Earth extension elbow connector to station earth</td>
<td>1 1 1 1</td>
</tr>
<tr>
<td>512-4</td>
<td>Cable termination and connection to RMU 22kV 185mm² cable</td>
<td>1</td>
</tr>
<tr>
<td>512-7</td>
<td>Cable termination and connection to RMU 22kV 630mm² cable</td>
<td>1</td>
</tr>
</tbody>
</table>

### Notes:
1. Insulate screen wires with PVC tape and ensure that wires DO NOT CONTACT any metal before reaching the station earth bar.
Auto Transformer

Assy Selection
588-4
or
588-7
(11kV end)
and
512-4
or
512-7
(22kV end)

Screen earth

Assy 510-6

To Station Earth

Construction Type
11CTC/TX
22CTC/TX